

1185 Morris Avenue Suite 205 Union, New Jersey 07083

Telephone (201) 964-9200 Fax (201) 964-9224

COMMERCIAL OPERATING INSTRUCTION MANUAL FOR

CABINET, SOLUTION WARMING
NSN 6530-01-207-0827 (GENERIC)
NSN 6530-01-325-3746 (SPECIFIC)
CONTRACT NO. DLA120-90-C-8547
ISSUED JULY, 1990
REVISED OCTOBER 10, 1990

MANUFACTURED BY: PRESTIGE METAL PRODUCTS, INC.

885 ANITA ST., BOX 700 ANTIOCH, IL. 60002 1-708-395-0775

FOR SERIAL NUMBERS 3777-0001 THRU 3777-2000

MANUFACTURED FOR: ATLANTIC ALLOY HEALTH & EQUIPMENT CORP.
1185 MORRIS AVENUE
UNION, N.J. 07083

1-908-964-9200

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GENERAL INFORMATION

The purpose and the function of this device is to heat and store bottles of solution for use in surgical and medical procedures. The upper compartment is capable of operating between 100 degrees F. and 180 degrees F. by means of an adjustable thermostat. The lower compartment operates at 110 degrees F. and is controlled by a non-adjustable thermostat. CAPACITY: Upper compartment 20, 2 liter flasks

Lower compartment, 27" wide x 40" high x 20" deep PHYSICAL CHARACTERISTIC: 30" wide x 24" deep x 78" high 300 lbs.

ELECTRIC: 110 volts, 50-60 hz, 6 amps, 1 ph.

SAFETY PRECAUTIONS

- 1. DO NOT HEAT UNVENTED OR NON-VENTED OR SEALED FLASKS OR BOTTLES IN UPPER CHAMBER.
- 2. UNPLUG OR DISCONNECT POWER BEFORE STARTING ANY MAINTENANCE.
- 3. DO NOT USE THIS CABINET TO HEAT ANY NON-AQUEOUS SOLUTIONS, LOW BOILING POINT SOLUTIONS, FLAMMABLE SOLVENTS OR VEHICLES.

INSTALLATION

When unpacking unit inspect for damage. Be sure to remove all packing material inside and outside of the cabinet. Adjust shelf clips and install shelves in the lower compartment. Place cabinet where desired and plug into 110 volt a.c. 50-60 hertz outlet. Make sure that unit is level.

GENERAL THEORY OF OPERATION

The lower storage compartment is electrically heated and is controlled by a concealed thermostat which is set for a temperature of 110 degrees F. ± 10 degrees F. The lower compartment is equipped with a thermal fuse, non-reset type, which will open if compartment temperature exceeds 157 degrees F.



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The upper heating compartment is electrically heated and is controlled by an adjustable thermostat with a control knob on the outside of the cabinet. The upper compartment can be set to operate from 100 degrees F. to 180 degrees F. The upper compartment is equipped with a fan for air circulation and with an over temp device which will turn off the power and turn on a warning light and buzzer should the temperature exceed 194 degrees F. The overtemp device will automatically reset after the temperature is reduced. If the overtemp light and buzzer alarms are activated, turn the thermostat knob to the off position and unplug the power cord.

MAINTENANCE AND CLEANING

There are no adjustments that the operator can make except to set the upper compartment thermostat to the desired set point. If the machine should malfunction disconnect the power immediately. Cleaning of the outside and inside can be done with standard soap and water cleaning compounds. Always rub in the direction of the grain, never in circular motions.

TROUBLESHOOTING

There are no performance checks that the operator can make. All troubleshooting and repairs should be performed by a qualified bio-medical technician.

ACCESSORIES

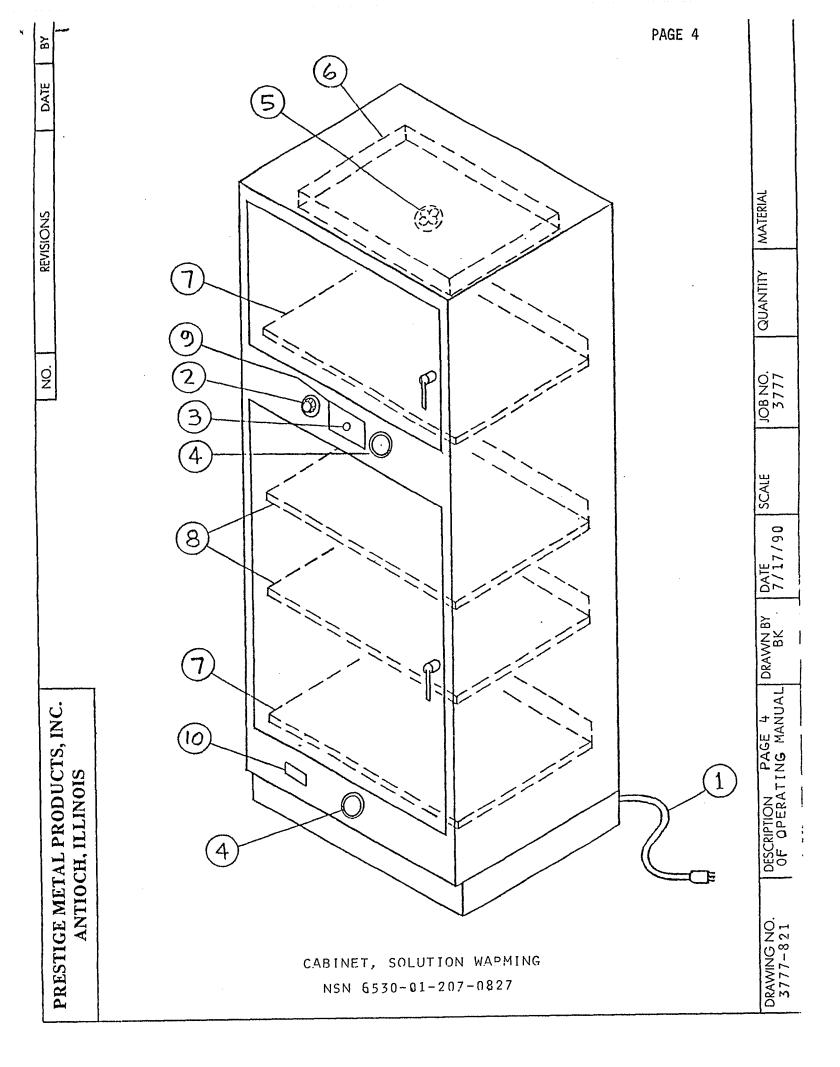
None available.

WARRANTY

Atlantic Alloy warrants each item of equipment to be of the highest standards of workmanship and materials. Should any equipment show any defects in materials or workmanship within one (1) year of the date of shipment from factory, Atlantic Alloy will be pleased to repair or replace such defective parts, F.O.B. factory. Warranties do not include any labor charges for replacement or repair of defective parts. Warranties do not apply in the event of neglect or abuse of the unit or parts thereof.

STORAGE

This unit can be stored indoors only if left in its original shipping carton.





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SOLUTION WARMING CABINET LEGEND

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3.	UPPER COMPARTMENT OVER TEMPERATURE RED PILOT
	LIGHT
4.	UPPER AND LOWER COMPARTMENT DIAL
	THERMOMETERS
5.	UPPER COMPARTMENT CIRCULATION FAN
6.	FAN SHROUD
7.	UPPER AND LOWER COMPARTMENT REMOVABLE BOTTOM
	SHELVES
8.	LOWER COMPARTMENT ADJUSTABLE SHELVES
9.	OPERATING INSTRUCTIONS
10.	SERIAL NUMBER NAMEPLATE



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COMMERCIAL OPERATING INSTRUCTION MANUAL

FOR

CABINET, SOLUTION WARMING NSN 6530-01-207-0827 (GENERIC) NSN 6530-01-325-3746 (SPECIFIC) CONTRACT NO. DLA120-90-C-8547 ISSUED JULY, 1990

REVISED OCTOBER 10, 1990

MANUFACTURED BY: PRESTIGE METAL PRODUCTS, INC.

885 ANITA ST., BOX 700 ANTIOCH, IL. 60002 1-708-395-0775

FOR SERIAL NUMBERS 3777-0001 THRU 3777-2000

MANUFACTURED FOR: ATLANTIC ALLOY HEALTH & EQUIPMENT CORP.

1185 MORRIS AVENUE UNION, N.J. 07083 1-908-964-9200

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300 lbs.

ELECTRIC: 110 volts, 50-60 hz, 6 amps, 1 ph.

SAFETY PRECAUTIONS

- 1. DO NOT HEAT UNVENTED OR NON-VENTED OR SEALED FLASKS OR BOTTLES IN UPPER CHAMBER.
- 2. UNPLUG OR DISCONNECT POWER BEFORE STARTING ANY MAINTENANCE.
- 3. DO NOT USE THIS CABINET TO HEAT ANY NON-AQUEOUS SOLUTIONS, LOW BOILING POINT SOLUTIONS, FLAMMABLE SOLVENTS OR VEHICLES.

INSTALLATION

When unpacking unit inspect for damage. Be sure to remove all packing material inside and outside of the cabinet. Adjust shelf clips and install shelves in the lower compartment. Place cabinet where desired and plug into 110 volt a.c. 50-60 hertz outlet. Make sure that unit is level.

GENERAL THEORY OF OPERATION

The lower storage compartment is electrically heated and is controlled by a concealed thermostat which is set for a temperature of 110 degrees F. ± 10 degrees F. The lower compartment is equipped with a thermal fuse, non-reset type, which will open if compartment temperature exceeds 157 degrees F.



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The upper heating compartment is electrically heated and is controlled by an adjustable thermostat with a control knob on the outside of the cabinet. The upper compartment can be set to operate from 100 degrees F. to 180 degrees F. The upper compartment is equipped with a fan for air circulation and with an over temp device which will turn off the power and turn on a warning light and buzzer should the temperature exceed 194 degrees F. The overtemp device will automatically reset after the temperature is reduced. If the overtemp light and buzzer alarms are activated, turn the thermostat knob to the off position and unplug the power cord.

MAINTENANCE AND CLEANING

There are no adjustments that the operator can make except to set the upper compartment thermostat to the desired set point. If the machine should malfunction disconnect the power immediately. Cleaning of the outside and inside can be done with standard soap and water cleaning compounds. Always rub in the direction of the grain, never in circular motions.

TROUBLESHOOTING

There are no performance checks that the operator can make. All troubleshooting and repairs should be performed by a qualified bio-medical technician.

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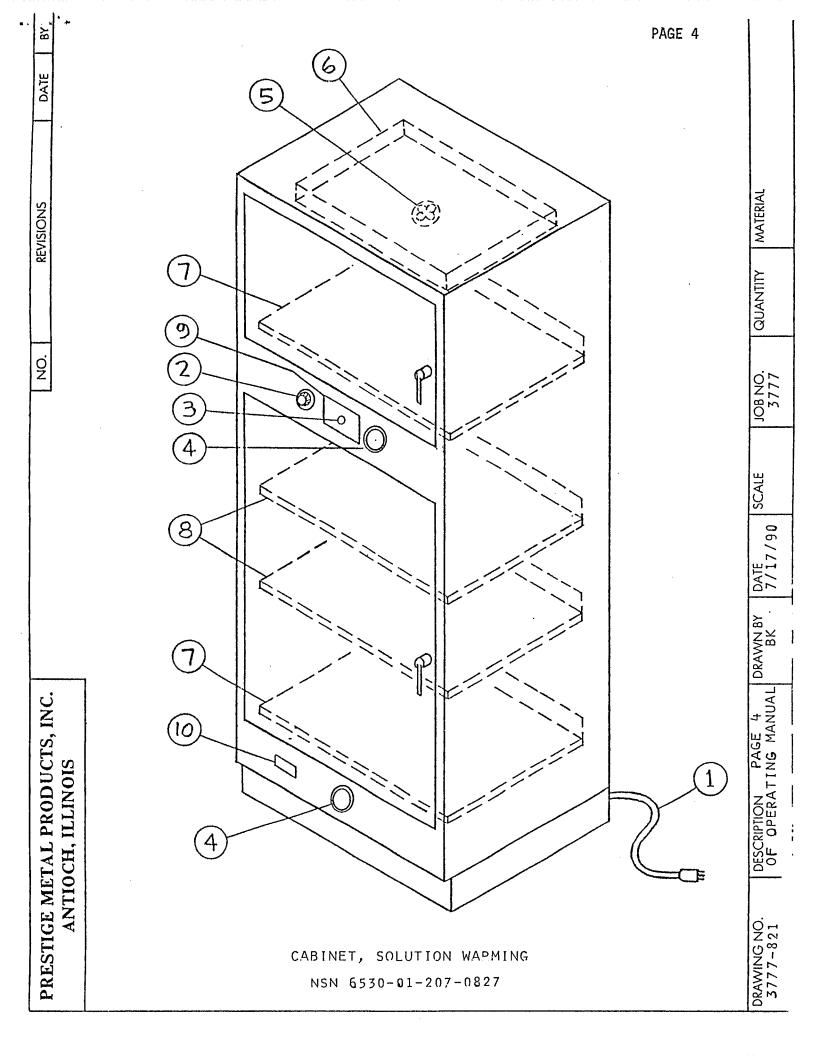
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COMMERCIAL MAINTENANCE MANUAL FOR

CABINET, SOLUTION WARMING NSN 6530-01-207-0827 (GENERIC) NSN 6530-01-325-3746 (SPECIFIC) CONTRACT NO. DLA120-90-C-8547 ISSUED JULY, 1990 REVISED OCTOBER 10, 1990

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FOR SERIAL NUMBERS 3777-0001 THRU 3777-2000

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1185 MORRIS AVENUE UNION, N.J. 07083 1-908-964-9200

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GENERAL INFORMATION

The purpose and the function of this device is to heat and store bottles of solution for use in surgical and medical procedures. The upper compartment is capable of operating between 100 degrees F. and 180 degrees F. by means of an adjustable thermostat. The lower compartment operates at 110 degrees F. and is controlled by a non-adjustable thermostat.

CAPACITY: Upper compartment 20, 2 liter flasks

Lower compartment, 27" wide x 40" high x 20" deep
PHYSICAL CHARACTERISTIC: 30" wide x 24" deep x 77-3/4" high
305 pounds

ELECTRIC: 110 volts, 50-60 hz, 6 amps, 1 ph. or 230 volts, 50-60 hz, 3 amps, 1 ph.

SAFETY PRECAUTIONS

- 1. DO NOT HEAT UNVENTED OR NON-VENTED OR SEALED FLASKS OR BOTTLES IN UPPER CHAMBER.
- 2. UNPLUG OR DISCONNECT POWER BEFORE STARTING ANY MAINTENANCE.
- 3. DO NOT USE THIS CABINET TO HEAT ANY NON-AQUEOUS SOLUTIONS, LOW BOILING POINT SOLUTIONS, OR FLAMMABLE SOLVENTS OR VEHICLES.

INSTALLATION

When unpacking unit inspect for damage. Be sure to remove all packing material inside and outside of the cabinet. Adjust shelf clips and install shelves in the lower compartment. Place cabinet where desired and plug into 110 volt a.c. 50-60 hertz outlet. Make sure that unit is level.

GENERAL THEORY OF OPERATION

The lower storage compartment is electrically heated and is controlled by a concealed thermostat which is set for a temperature of 110 degrees F. ± 10 degrees F. The lower compartment is equipped with a thermal fuse, non-reset type, which will open if compartment temperature exceeds 157 degrees F.

The upper heating compartment is electrically heated and is controlled by an adjustable thermostat with a control knob on the outside of the cabinet. The upper compartment can be set to operate from 100 degrees F. to 180 degrees F. The upper compartment is equipped with a fan for air circulation and with an over temp device which will turn off the power and turn on a warning light and buzzer should the temperature exceed 194 degrees F. The overtemp device will automatically reset after the temperature is reduced. If the overtemp light and buzzer alarms are activated, turn the thermostat knob to the off position and unplug the power cord.

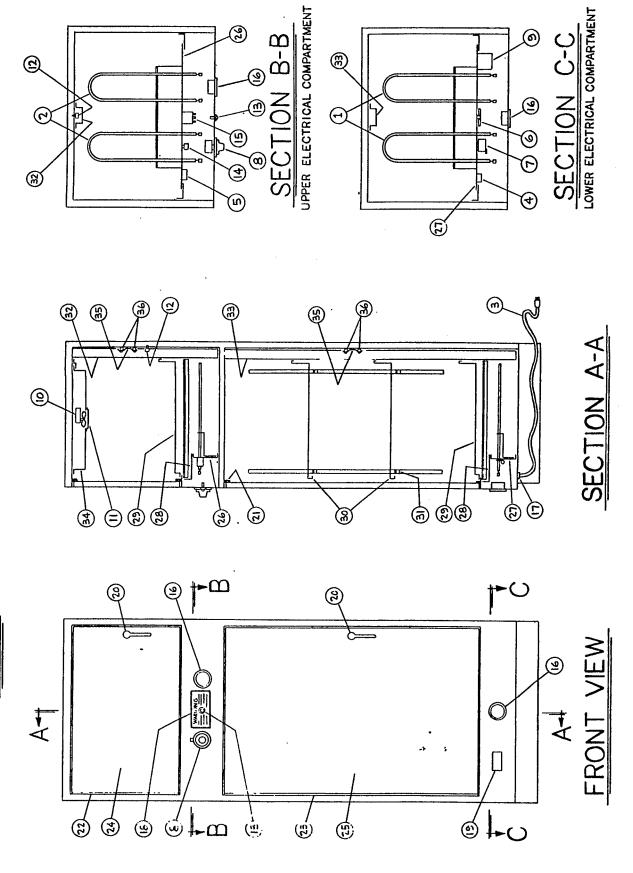
STARTING, OPERATING AND STOPPING UNIT

- 1. REMOVE OUTER CARTON, SKID AND POLYBAG.
- 2. OPEN UPPER COMPARTMENT DOOR AND REMOVE PACKING MATERIALS.
- 3. OPEN LOWER COMPARTMENT DOOR AND REMOVE PACKING MATERIAL FROM ADJUSTABLE SHELVES AND ADJUST SHELVES TO DESIRED POSITION.
- 4. PLUG UNIT INTO 110 VAC, 50-60 HZ ELECTRIC POWER SOURCE OR CONVERT UNIT TO 230 VOLT, 50-60 HZ PER INSTRUCTIONS AND CONNECT TO 230 VAC POWER.
- 5. ADJUST UPPER COMPARTMENT TO DESIRED TEMPERATURE BY TURNING THE THERMOSTAT KNOB TO DESIRED SET POINT.
- 6. THE LOWER COMPARTMENT HAS A FIXED THERMOSTAT AND COMES ON WHEN THE UNIT IS PLUGGED IN.
- 7. THE UNIT IS NOW READY FOR USE.
- 8. THE UPPER HEATING COMPARTMENT CAN BE SHUT OFF BY TURNING THE THERMOSTAT KNOB TO THE "OFF" POSITION.
- 9. THE LOWER HOLDING COMPARTMENT AND THE ENTIRE UNIT CAN BE TURNED OFF BY REMOVING THE PLUG FROM POWER SOURCE.

DESCRIPTION OF ELECTRICAL CIRCUITS

- 1. The lower compartment contains two 75 watt heating elements which are connected in parallel for 110 volts and connected in series when converted to 230 volts. These heaters are controlled by a fixed thermostat which is factory set to cutoff at 110 degrees F. ± 10 degrees F. The thermostat is wired in series with a one-time thermal fuse rated at 157 degrees F.
- 2. The upper compartment contains two 300 watt heating elements which are connected in parallel for 110 volts and connected in series when converted to 230 volts. The heaters are controlled by an adjustable thermostat through a relay switch. If the compartment exceeds 192 degrees F., the overtemp switch will open, which de-energizes the relay; which in turn shuts the heaters off and turns an overtemp buzzer and light on. The buzzer and light remain on until the temperature drops low enough for the overtemp switch to automatically reset. The upper compartment also has a circulating fan that runs continuously.

NOTE: LEVEL UNIT WHEN INSTALLING





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	EX PART NO.	DESCRIPTION	UNITS PER ASSEMBLY
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	3777-801	HEATER, TUBULAR, 150 WATT, LOWER COMPARTMENT HEATER, TUBULAR, 600 WATT, UPPER COMPARTMENT	2
	3777-802	POWER CORD	1
	3777-803	TERMINAL BLOCK, 2 POLE	1
	3777-803 3777-805	TERMINAL BLOCK, 2 POLE	1
	3777-805	THERMAL FUSE, 157 DEGREES F.	1
	3777-807	THERMOSTAT, FIXED THERMOSTAT, ADJUSTABLE, WITH BEZEL AND KNOB	1 1
	3777-808	TRANSFORMER	1
	3777-809	FAN AND MOTOR ASSEMBLY	i
	3777-810	FAN GUARD	ī
	3777-811	OVERTEMP SWITCH	ī
13.	3777-812	OVERTEMP PILOT LIGHT, RED	ī
	3777-813	OVERTEMP BUZZER	· <u>1</u>
15.	3777-814	RELAY	1
	3777-815	THERMOMETER, DIAL WITH BULB	2
	3777-816	STRAIN RELIEF BUSHING	1
		OVER TEMP WARNING DECAL	1
19.	3777-820	SERIAL NUMBER NAMEPLATE	1 1 2
	3777-821	OPERATING MANUAL (NOT SHOWN)	2
	3777-822	MAINTENANCE MANUAL (NOT SHOWN)	2
	3777-827		2
	3777-828	DOOR GASKET	2
		DOOR HINGE, UPPER	1
		DOOR HINGE, LOWER	1
24.	3///-UD	UPPER DOOR ASSEMBLY	1
25.	3///-LD	LOWER DOOR ASSEMBLY UPPER COMPARTMENT ELECTRIC PANEL	1 1
20.	3777-UE	LOWER COMPARTMENT ELECTRIC PANEL	
28.	3777-CG	ELECTRIC PANEL TOP	
29.	3777-L	ELECTRIC PANEL TOP REMOVABLE BOTTOM SHELF LOWER COMPARTMENT ADJUSTABLE SHELF	1 2 2
30.	3777-AG	LOWER COMPARTMENT ADJUSTABLE SHELF	2
31.	3777-831	LOWER COMPARTMENT ADJUSTABLE SHELF SUPPORT CLIP	8
32.	3777-CL	UPPER COMPARTMENT WIRE WAY	ĺ
33.	3777-CL	UPPER COMPARTMENT WIRE WAY LOWER COMPARTMENT WIRE WAY FAN SHROUD	ī
34.	3777-CN	FAN SHROUD	1
35.	3777-AA	THERMOSTAT AND THERMOMETER BULB CLIP	2
36.	FOR REFER	ENCE ONLY: THERMOSTAT AND THERMOMETER SENSING BUL	BS



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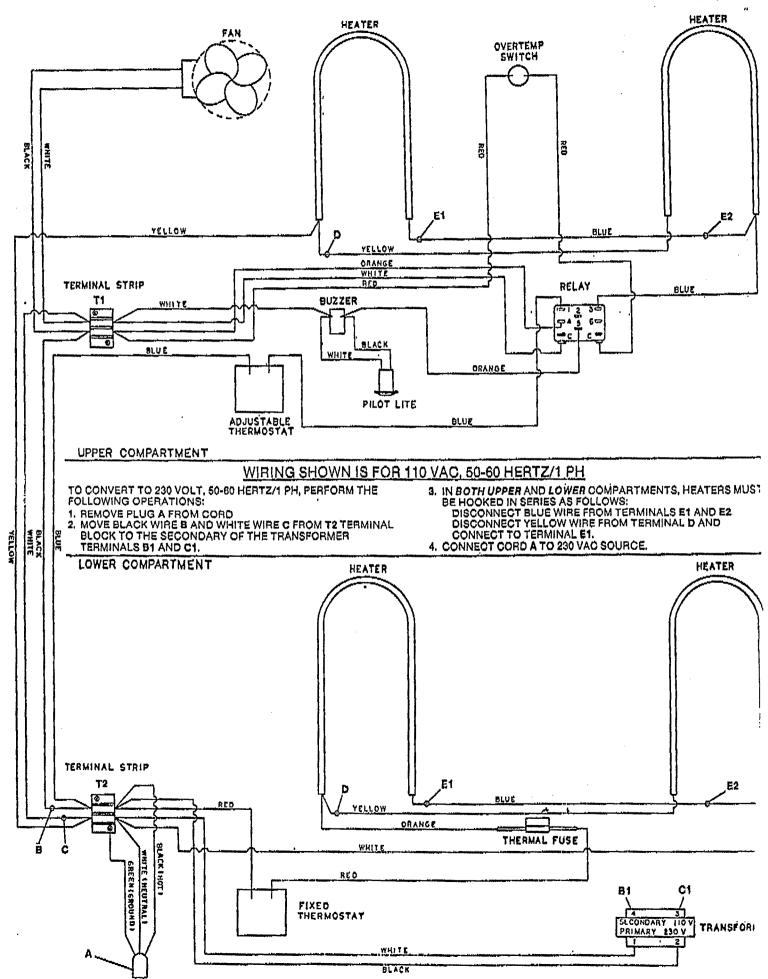
MAINTENANCE

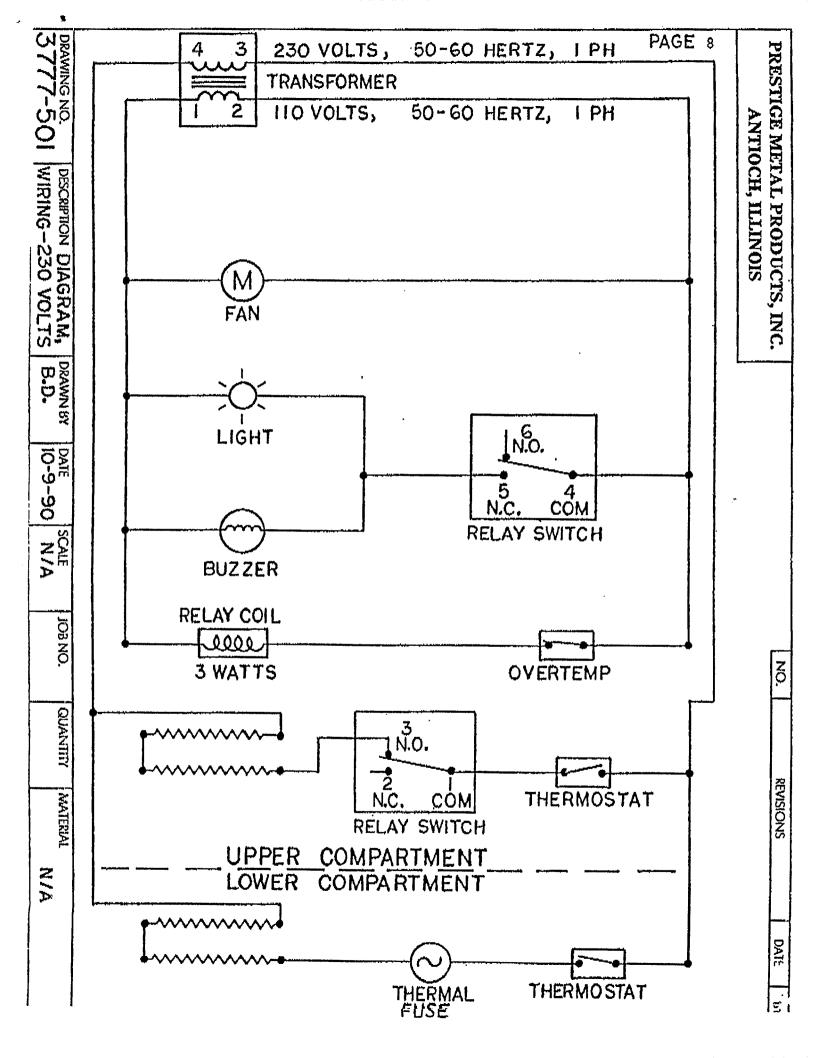
The majority of the electrical components are located in the bottom of each compartment underneath the removable bottom shelf, item 29.

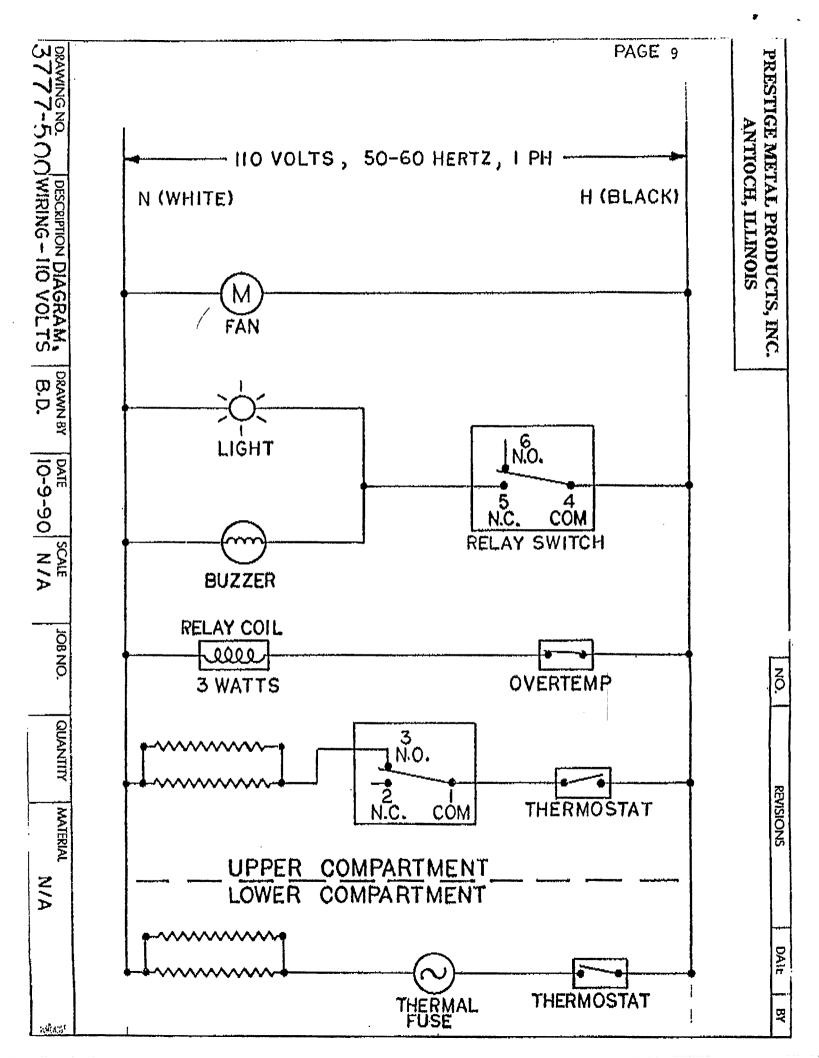
Troubleshooting guidelines are:

- 1. NO HEAT
 - A. Check power supply
 - B. Check thermostat items 7 or 8 switch. It should be closed.
 - C. Check thermal fuse item 6 in lower compartment.
 - D. Check heaters items 1 & 2 for continuity.
- 2. Erratic heat in upper compartment
 - A. Check fan
- 3. Overtemp alarm buzzer and warning light come on.
 - A. Check and recalibrate thermostat
 - B. Check fan
- 4. Thermostat out of calibration
 - A. Make sure bulb is properly mounted in clip item 35 on rear inside wall.
 - B. Recalibrate by turning thermostat knob to highest position (clockwise) then remove knob. With a small screw driver, turn set screw inside the hollow shaft: Counterclockwise to raise temperature, clockwise to lower temperature.

DO NOT SET HIGHER THAN 180 DEGREES F.









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CABINET, SOLUTION WARMING
NSN 6530-01-207-0827 (GENERIC)
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GENERAL INFORMATION

The purpose and the function of this device is to heat and store bottles of solution for use in surgical and medical procedures. The upper compartment is capable of operating between 100 degrees F. and 180 degrees F. by means of an adjustable thermostat. The lower compartment operates at 110 degrees F. and is controlled by a non-adjustable thermostat.

CAPACITY: Upper compartment 20, 2 liter flasks
Lower compartment, 27" wide x 40" high x 20" deep
PHYSICAL CHARACTERISTIC: 30" wide x 24" deep x 77-3/4" high
305 pounds

ELECTRIC: 110 volts, 50-60 hz, 6 amps, 1 ph. or 230 volts, 50-60 hz, 3 amps, 1 ph.

SAFETY PRECAUTIONS

- 1. DO NOT HEAT UNVENTED OR NON-VENTED OR SEALED FLASKS OR BOTTLES IN UPPER CHAMBER.
- 2. UNPLUG OR DISCONNECT POWER BEFORE STARTING ANY MAINTENANCE.
- 3. DO NOT USE THIS CABINET TO HEAT ANY NON-AQUEOUS SOLUTIONS, LOW BOILING POINT SOLUTIONS, OR FLAMMABLE SOLVENTS OR VEHICLES.

INSTALLATION

When unpacking unit inspect for damage. Be sure to remove all packing material inside and outside of the cabinet. Adjust shelf clips and install shelves in the lower compartment. Place cabinet where desired and plug into 110 volt a.c. 50-60 hertz outlet. Make sure that unit is level.

GENERAL THEORY OF OPERATION

The lower storage compartment is electrically heated and is controlled by a concealed thermostat which is set for a temperature of 110 degrees F. ± 10 degrees F. The lower compartment is equipped with a thermal fuse, non-reset type, which will open if compartment temperature exceeds 157 degrees F.

The upper heating compartment is electrically heated and is controlled by an adjustable thermostat with a control knob on the outside of the cabinet. The upper compartment can be set to operate from 100 degrees F. to 180 degrees F. The upper compartment is equipped with a fan for air circulation and with an over temp device which will turn off the power and turn on a warning light and buzzer should the temperature exceed 194 degrees F. The overtemp device will automatically reset after the temperature is reduced. If the overtemp light and buzzer alarms are activated, turn the thermostat knob to the off position and unplug the power cord.

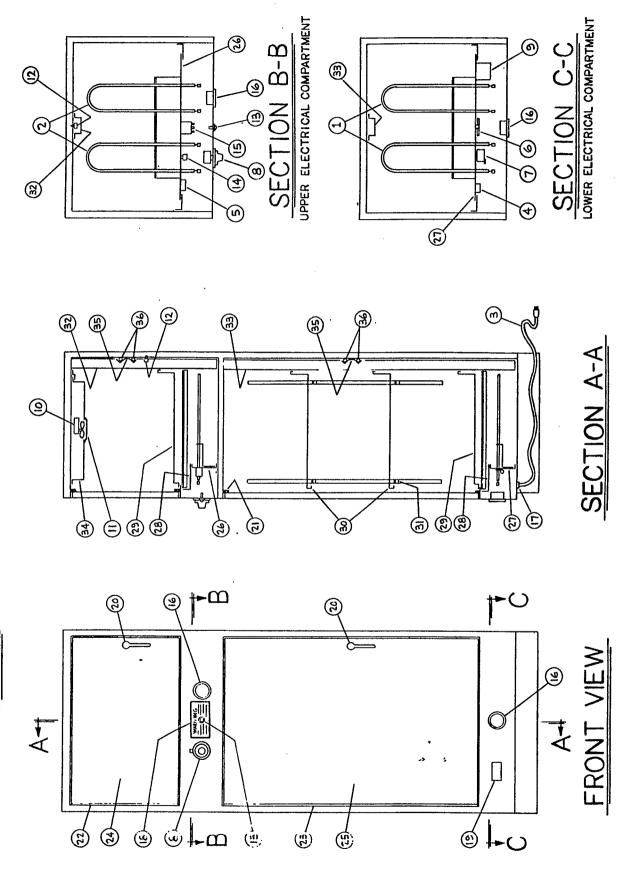
STARTING, OPERATING AND STOPPING UNIT

- 1. REMOVE OUTER CARTON, SKID AND POLYBAG.
- 2. OPEN UPPER COMPARTMENT DOOR AND REMOVE PACKING MATERIALS.
- 3. OPEN LOWER COMPARTMENT DOOR AND REMOVE PACKING MATERIAL FROM ADJUSTABLE SHELVES AND ADJUST SHELVES TO DESIRED POSITION.
- 4. PLUG UNIT INTO 110 VAC, 50-60 HZ ELECTRIC POWER SOURCE OR CONVERT UNIT TO 230 VOLT, 50-60 HZ PER INSTRUCTIONS AND CONNECT TO 230 VAC POWER.
- 5. ADJUST UPPER COMPARTMENT TO DESIRED TEMPERATURE BY TURNING THE THERMOSTAT KNOB TO DESIRED SET POINT.
- 6. THE LOWER COMPARTMENT HAS A FIXED THERMOSTAT AND COMES ON WHEN THE UNIT IS PLUGGED IN.
- 7. THE UNIT IS NOW READY FOR USE.
- 8. THE UPPER HEATING COMPARTMENT CAN BE SHUT OFF BY TURNING THE THERMOSTAT KNOB TO THE "OFF" POSITION.
- 9. THE LOWER HOLDING COMPARTMENT AND THE ENTIRE UNIT CAN BE TURNED OFF BY REMOVING THE PLUG FROM POWER SOURCE.

DESCRIPTION OF ELECTRICAL CIRCUITS

- 1. The lower compartment contains two 75 watt heating elements which are connected in parallel for 110 volts and connected in series when converted to 230 volts. These heaters are controlled by a fixed thermostat which is factory set to cutoff at 110 degrees F. ± 10 degrees F. The thermostat is wired in series with a one-time thermal fuse rated at 157 degrees F.
- The upper compartment contains two 300 watt heating elements which are connected in parallel for 110 volts and connected in series when converted to 230 volts. The heaters are controlled by an adjustable thermostat through a relay switch. If the compartment exceeds 192 degrees F., the overtemp switch will open, which de-energizes the relay; which in turn shuts the heaters off and turns an overtemp buzzer and light on. The buzzer and light remain on until the temperature drops low enough for the overtemp switch to automatically reset. The upper compartment also has a circulating fan that runs continuously.

NOTE: LEVEL UNIT WHEN INSTALLING





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		POWER CORD	1 1
4. 3// 5. 377'	7-803 7-803	TERMINAL BLOCK, 2 POLE TERMINAL BLOCK, 2 POLE	1
6. 377			ī
7. 377			1
		THERMOSTAT, ADJUSTABLE, WITH BEZEL AND KNOB	
9. 377			1
10. 377	7-809	FAN AND MOTOR ASSEMBLY	1
11. 377	7-810	FAN GUARD	1
		OVERTEMP SWITCH	1
		OVERTEMP PILOT LIGHT, RED	1
		OVERTEMP BUZZER	1
15. 377			1
		THERMOMETER, DIAL WITH BULB	2
		STRAIN RELIEF BUSHING	1 1
		OVER TEMP WARNING DECAL	1
19. 3//	7-82U 7-021	SERIAL NUMBER NAMEPLATE OPERATING MANUAL (NOT SHOWN)	2
377	7-021 7-021	MAINTENANCE MANUAL (NOT SHOWN)	2
		DOOR HANDLE ASSEMBLY	2 2
21. 377		DOOR GASKET	2
22. 377'			ī
		DOOR HINGE, LOWER	$\bar{\overline{1}}$
		UPPER DOOR ASSEMBLY	1
25. 377	7-LD	LOWER DOOR ASSEMBLY	1
26. 377 [°]	7-UE	LOWER DOOR ASSEMBLY UPPER COMPARTMENT ELECTRIC PANEL	1
27. 377°	7-LE	LOWER COMPARTMENT ELECTRIC PANEL	1
28. 377	7-CG	ELECTRIC PANEL TOP	2 2
29. 377 [.] 30. 377 [.]	7-L	REMOVABLE BOTTOM SHELF	2
30. 377	7-AG	LOWER COMPARTMENT ADJUSTABLE SHELF	2 8
31. 377	7-831	LOWER COMPARTMENT ADJUSTABLE SHELF SUPPORT CLIP	
32. 377	7-CL	UPPER COMPARTMENT WIRE WAY LOWER COMPARTMENT WIRE WAY FAN SHROUD	1
33. 377	/-CL	LOWER COMPARTMENT WIRE WAY	1 1
34. 3// 35. 377	/-CN 7 7 7	THERMOSTAT AND THERMOMETER BULB CLIP	2
35. 3//	/ - AA	IDEMMOSTAL AND IDERMOMETER BOTE CITE	

36. FOR REFERENCE ONLY: THERMOSTAT AND THERMOMETER SENSING BULBS



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MAINTENANCE

The majority of the electrical components are located in the bottom of each compartment underneath the removable bottom shelf, item 29.

Troubleshooting guidelines are:

- 1. NO HEAT
 - A. Check power supply
 - B. Check thermostat items 7 or 8 switch. It should be closed.
 - C. Check thermal fuse item 6 in lower compartment.
 - D. Check heaters items 1 & 2 for continuity.
- 2. Erratic heat in upper compartment
 - A. Check fan
- 3. Overtemp alarm buzzer and warning light come on.
 - A. Check and recalibrate thermostat
 - B. Check fan
- 4. Thermostat out of calibration
 - A. Make sure bulb is properly mounted in clip item 35 on rear inside wall.
 - B. Recalibrate by turning thermostat knob to highest position (clockwise) then remove knob. With a small screw driver, turn set screw inside the hollow shaft: Counterclockwise to raise temperature, clockwise to lower temperature.

DO NOT SET HIGHER THAN 180 DEGREES F.

